

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: May 17, 2002, 23:39:12 ; Search time 139.1 Seconds
(without alignments)
1393.277 Million cell updates/sec

Title: US-09-719-748-1_COPY_98_886

Perfect score: 789

Sequence: 1 tatgacatcgagagagagct.....ctctcagacaccccgatc 789

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 38353 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA :
1: /cgn2_6/p10data1/1na/5A.COMB.seq : *
2: /cgn2_6/p10data1/1na/5B.COMB.seq : *
3: /cgn2_6/p10data1/1na/6A.COMB.seq : *
4: /cgn2_6/p10data1/1na/6B.COMB.seq : *
5: /cgn2_6/p10data1/1na/PCTUS.COMB.seq : *
6: /cgn2_6/p10data1/1na/backfile1.seq : *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	494.6	62.7	1429	2	US-09-159-385-4
2	494.6	62.7	1429	4	US-09-186-277-4
3	493.6	62.6	2132	2	US-09-159-385-3
4	493.6	62.6	2132	4	US-09-186-277-3
5	398.2	50.5	4935	2	US-08-631-097-3
6	398.2	50.5	5886	4	US-08-810-712-9
7	193.6	24.5	480	3	US-09-221-235-12
8	193.6	24.5	480	3	US-09-221-928-12
9	193.6	24.5	480	3	US-09-221-527-12
10	193.6	24.5	480	3	US-09-221-236-12
11	193.6	24.5	480	3	US-09-221-116-12
12	193.6	24.5	480	4	US-09-221-245-12
13	193.6	24.5	480	4	US-09-163-115-12
14	193.6	24.5	480	4	US-09-221-528-12
15	193.6	24.5	480	4	US-09-593-553-12
16	193.6	24.5	480	4	US-09-221-237-12
17	193.6	24.5	1864	4	US-09-221-235-10
18	193.6	24.5	1864	3	US-09-221-928-10
19	193.6	24.5	1864	3	US-09-221-527-10
20	193.6	24.5	1864	3	US-09-221-336-10
21	193.6	24.5	1864	3	US-09-221-416-10
22	193.6	24.5	1864	4	US-09-221-245-10
23	193.6	24.5	1864	4	US-09-163-115-10
24	193.6	24.5	1864	4	US-09-221-245-10
25	193.6	24.5	1864	4	US-09-593-553-10
26	193.6	24.5	1864	4	US-09-221-237-10
27	146	18.5	1282	2	US-08-878-989-12

28	146	18.5	1282	4	US-09-272-796-12	Sequence 12, Appl
29	136.4	17.3	8906	2	US-08-826-267-1	Sequence 1, Appl
30	131.8	16.7	1417	1	US-08-713-828-2	Sequence 2, Appl
31	131.8	16.7	1417	2	US-08-919-627-2	Sequence 2, Appl
32	131.8	16.7	1417	2	US-09-096-245-2	Sequence 2, Appl
33	131.4	16.7	3471	2	US-08-715-568A-2	Sequence 2, Appl
34	107.6	13.6	425	1	US-08-700-575-44	Sequence 44, Appl
35	97.6	12.4	1776	3	US-08-655-352-10	Sequence 10, Appl
36	97.6	12.4	2514	3	US-08-655-352-1	Sequence 1, Appl
37	96.8	12.3	2374	4	US-09-347-801-3	Sequence 3, Appl
38	92.8	11.8	1400	1	US-08-464-164-1	Sequence 1, Appl
39	92.8	11.8	1400	1	US-08-338-057-1	Sequence 1, Appl
40	92.8	11.8	1400	2	US-08-668-416-1	Sequence 1, Appl
41	89	11.3	1349	1	US-07-951-715A-20	Sequence 20, Appl
42	89	11.3	1349	2	US-08-459-448A-20	Sequence 20, Appl
43	89	11.3	1349	3	US-08-459-535A-20	Sequence 20, Appl
44	89	11.3	1349	3	US-08-459-504B-20	Sequence 20, Appl
45	89	11.3	1349	3	US-08-459-444-20	Sequence 0, Appl

ALIGNMENTS

RESULT 1
US-09-159-385-4
: Sequence 4, Application US/09159385
: Patent No. 5958748
: GENERAL INFORMATION:
: APPLICANT: AKIRA, SHIZUO
: TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
: FILE REFERENCE: PH-569
: CURRENT APPLICATION NUMBER: US/09/159, 385
: EARLIER FILING DATE: 1998-09-23
: EARLIER APPLICATION NUMBER: JP97/261589
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 4
: LENGTH: 1429
: TYPE: DNA
: ORGANISM: Mus musculus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (10)..(1353)
US-09-159-385-4

Query Match 62.7% Score 494.6; DB 2; Length 1429;
Best Local Similarity 76.7%; Pred. No. 9,8e-124;
Matches 605; Conservative 0; Mismatches 184; Indels 0; Gaps 0;
QY 1 tatgacatcgagagagagcttgagagtgccagttcgatcgtgaagaatgccggag 60
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Db 46 tatgagatggagagagagcttgagagtgccagttcgatcgtgaagaatgccggag 105
Db 106 aaggcagcggagagagcttgagagtgccagttcgatcgtgaagaatgccggag 165
QY 61 aagagcagcggagcttgagatgacgcaagttcatcaagaagcggcagagcggagc 120
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Db 106 aaggcagcggagagagcttgagagtgccagttcgatcgtgaagaatgccggag 165
QY 121 cggcgcggtgtgagcggagagagatcgagcggaggtgagacatctcgcgagtgctc 180
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Db 166 cggcgcggtgtgagcggagagagatcgagcggaggtgagacatctctcgcgagtcgcg 225
QY 181 caccacaaatgtcatcagcgtctatagaaacccagcagcgtgtgtgacatc 240
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Db 226 caccacaaatcatatacactgtacgtgtctgagaaacagacagatgtgtgtgac 285
QY 241 ctgagcagtgctgtgagagagagctctgacatctcggcccaagaagagtcagt 300
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||
Db 286 ctgagcagtggtgtgagcggagcgtcttcgacttcggcggcgaagaagagtcagc 345
QY 301 gagagagagcagcagcagcttcaatgaagatcctgtggtgtgtaacttcaacaca 360

Db 346 gagagatgagccacgagcttccctcaacaacatcctagacggtgtccactacccctgcatcc 405
OY 361 aaaaattgctcaactttgtatctcaagccgaaacattatgttgaagaagaatatt 420
Db 406 aagcgatcgcaactctgacctgaagccgaaacatcatgttctgcygcaagcagca 465
OY 421 cccattccacacatcaagctgactgtactgtctgtctgctcagaataatagatgagttc 480
Db 466 gccagcccccgcattaaagctcactgactgttgcacgcgacagatcgagctgtgagc 525
OY 481 gaattaaagaataatttttggagccggaattgttgcctcagaanaatttgaatacga 540
Db 526 gagttcaagaacatcttctgacacccgagttgtctgcccccgagttcgtgaactatgag 585
OY 541 ccccttggtctgagagctacatctgtgagcatgagcggtataccactacatcccttaagt 600
Db 586 ccaactggtcttgagagctgacatgtagagcatctgagctgatacctacacaccccttgagc 645
OY 601 ggaagcacccttccctctgagagacagaaagcagaaacactggtgcaaatatcatcatagt 660
Db 646 ggaagcgctcccatctctgagcgagacaaagcagagagcgctgacgaacatctcagcagtg 705
OY 661 agttacgaactttgtgaggaatcttccagccatacagcgagctggtgccaagagattatt 720
Db 706 aactctgactttgtagaagaatacttcaagcagacacagcagagctggtgccaagagcttcatc 765
OY 721 cgaagactctgtttaaagaacccgaaacggtcacacatccaaagagcttcagacac 780
Db 766 cgcagcgctgtgttcaaaagaccccaagagagatgagcatcgacacagagccctgagcat 825
OY 781 cccctgagtc 789
Db 826 tccctgagtc 834

RESULT 2
US-09-186-277-4
; Sequence 4, Application US/09186277
; Patent No. 6171841
; GENERAL INFORMATION:
; APPLICANT: AKIRA, SHIZUO
; APPLICANT: KAWAI, TARO
; TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
; FILE REFERENCE: 081356/0128
; CURRENT APPLICATION NUMBER: US/09/186,277
; EARLIER FILING DATE: 1998-11-05
; EARLIER APPLICATION NUMBER: JP97/261589
; EARLIER FILING DATE: 1997-09-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1429
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (10)..(1353)
US-09-186-277-4

Query Match 62.7%; Score 494.6; DB 4; Length 1429;
Best Local Similarity 76.7%; Pred. No. 9.8e-124;
Matches 605; Conservative 0; Mismatches 184; Indels 0; Gaps 0;
OY 1 tatgacatcgagagagctgaggagtgccagttgcatcgtaagaagtccggag 60
Db 46 tatgagatggagagggagcttggaagtgccaattgcatcgtgcgcaagtgcagcag 105
OY 61 aagagcagcgagcttgagtatgacgccaagttcatcaagaagcgcgagccggcgagc 120
Db 106 aagggcagcgagcttgagtatgacgccaagttcatcaagaagcgcgagccgtccatcagc 165

OY 121 cgcgcggtgtgagccggagagatcgagcggaagtgtgacatccctcgagctgctg 180
Db 166 cgcgcggtgtgagccggagagatcgagcggaagtgtgacatccctcgagctgctg 225
OY 181 caccacatgcatcacgctcagcagctctcatgagacccgacagctgtgtgacac 240
Db 226 caccacacatcataaacatcagctgacggtgtctgagaacagacagatgtgtgtgac 285
OY 241 ctgagctagtgcttgagagagagctctcgattcctctgcccagaaagagtcagt 300
Db 286 ctgagctagtgcttgagagagagctctcgattcctctgcccagaaagagtgagc 345
OY 301 gaggagagagccacacactcatgaagacagctctgtatggtgtggaattacttcaaca 360
Db 346 gaggagagagccacacactcatgaagacagctctgtatggtgtggaattacttcaaca 405
OY 361 aagaataatgctcaacttgaatctcaagccagaaacattatgttgaagaagaatt 420
Db 406 aagcgatcgacacacttgacacttgagcccgagacacatcatgttctgagacagacga 465
OY 421 cccattccacacatcaagctgactgtgactgtgtctgctcagaataatgagagtg 480
Db 466 gccagcccccgcattaaagctcactgacttggacatcgcgacagatcgagctgagcagc 525
OY 481 gaattaaagaataatttttggagccggaattgttgcctcagaanaatttgaatacga 540
Db 526 gagttcaagaacatcttctgacacccgagttgtgcgccccgagatcggtgaactatgag 585
OY 541 ccccttggtctgagagctgacatgtagagcatagcgctcatcaactacatcccttaagt 600
Db 586 ccaactggtcttgagagctgacatgtagagcatgtagcgtcatcaactacatcccttgagc 645
OY 601 ggaagcacccttccctctgagagacagaaagcagaaacactggtgcaaatatcatcatagt 660
Db 646 ggaagcgctcccatctctgagcgagacaaagcagagagcgctgagacatctcagcagtg 705
OY 661 agttacgaactttgtgaggaatcttccagccatacagcgagctggtgccaagagattatt 720
Db 706 aactctgactttgtagaagaatacttcaagcagacacagcagagctggtgccaagagcttcatc 765
OY 721 cgaagactctgtttaaagaacccgaaacggtcacacatccaaagagcttcagacac 780
Db 766 cgcagcgctgtgttcaaaagaccccaagagagatgagcatcgacacagagccctgagcat 825
OY 781 cccctgagtc 789
Db 826 tccctgagtc 834

RESULT 3
US-09-159-385-3
; Sequence 3, Application US/09159385
; Patent No. 5958748
; GENERAL INFORMATION:
; APPLICANT: AKIRA, SHIZUO
; APPLICANT: KAWAI, TARO
; TITLE OF INVENTION: DNA CODING FOR SERINE/THREONINE KINASE
; FILE REFERENCE: PH-569
; CURRENT APPLICATION NUMBER: US/09/159,385
; EARLIER FILING DATE: 1998-09-23
; EARLIER APPLICATION NUMBER: JP97/261589
; EARLIER FILING DATE: 1997-09-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 2132
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (94)..(1455)
US-09-159-385-3


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RESULT 5
US-08-631-097-3
; Sequence 3, Application US/08631097
; Patent No. 5968816
; GENERAL INFORMATION:
; APPLICANT: Kimchil, Adi
; TITLE OF INVENTION: Tumor Suppressor Genes,
; NUMBER OF INVENTION: Protein Enclosed Thereby, and Use of Said Genes and Protein
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Migman Cohen, Leitner, & Myers, P.C.
; STREET: 900 17th Street, N.W., Suite 1000
; City: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/631,097
; FILING DATE: 12-Apr-96
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/11598
; FILING DATE: 12-Oct-94
; ATTORNEY/AGENT INFORMATION:
; NAME: Cohen, Herbert
; REGISTRATION NUMBER: 25,109
; REFERENCE/DOCKET NUMBER: 0744.057
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)463-7700
; TELEFAX: (202)473-6915
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4935 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: No. 5968816 applicable
; ORIGINAL SOURCE:
; ORGANISM: homo sapiens
; STRAIN: not applicable
; INDIVIDUAL ISOLATE: not applicable
; DEVELOPMENTAL STAGE: not applicable
; HAPLOTYPE: not applicable
; TISSUE TYPE: blood
; CELL TYPE: Leucocyte
; ORGANELL: not applicable
; IMMEDIATE SOURCE:
; LIBRARY: not applicable
; CLONE: not applicable
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: not applicable
; MAP POSITION: not applicable
; UNITS: not applicable
; FEATURE:
; NAME/KEY: Seq. ID. NO.: 3 is
; NAME/KEY: the sequence in claim 1(iii) as Figure 8 of the specification
; LOCATION: not available
; IDENTIFICATION METHOD: experiment-
; OTHER INFORMATION: prevention of IFN-2
; OTHER INFORMATION: promoted cell death
; PUBLICATION INFORMATION: not available

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US-08-631-097-3
Query Match          50.5%; Score 398.2; DB 2; Length 4935;
Best Local Similarity 70.6%; Pred. No. 1.3e-97;
Matches 557; Conservative 0; Mismatches 208; Indels 24; Gaps 1;

QY 1 tatgacatcggagagagctgggagatgcacagcttgcacatgtaagaatgcccggag 60
DB 373 TACGACACCGCGGAGAGAACTTGACAGTGCAGCTTGGCGTTGTAAGAAATCCGCTAG 432
QY 61 aagaacacggggcttgatgacagccaaagttcatcaaaagacggcgagcgagc 120
DB 433 AAAAGTACCGGCGCTCCAGTATCCCGCAAAATTCAGAAAGAGAGCATTAAGTCCAGC 492
QY 121 cggcgagtgatgagcggagagagagagagagagagagagagagagagagagag 180
DB 493 CGGCGGGGTGTGAGCGCGGAGAGACATCGAGCGGAGGTACACATCTGAAGAGATCCAG 552
QY 181 caccacatgcatcaacgctgacagcgtctatgagacccgacagcagtggtgacatc 240
DB 553 CACCCCAATGTATCATCACCTCCAGAGGTATGAGAAACAGAGGAGCATCTGATC 612
QY 241 ctgagcagtgatgagagagagagagagagagagagagagagagagagagagag 300
DB 613 TTGGAACCTGTGACAGGTGGGAGAGCTGTTGACTCTTAACTGAAGAGATCTTAACT 672
QY 301 gaggagagagcaccagctcatcaagcagatccctgagtgagtgagagagagagag 360
DB 673 GAAGAGAGAGCACTGAAATTTCTCAACAAATTTCTAAATGTTTAACTGCTGACCTCC 732
QY 361 aagaacatgctcacttgatctcaagccgagaaacatctatgctgtagaagaatatt 420
DB 733 CTTCAAATCCGCCACTTTGATCTTAACTGAAACCTGAACATTAATGCTTTGATAGAAATGTC 792
QY 421 ccaatccacacatcaagctgactgactgctgctgctcagcagaatagaagtgagtg 480
DB 793 CCCAACTCGAGTCAAGATCATTTGACTT-----TGAATAAT 828
QY 481 gaattaaagaatttttttgagagccggaaattgtgtgtccagaatattgaaactagag 540
DB 829 GAATTTAAACATTAATTTGGAGCTCCAGAGTTGTGCTCTGATGATCAACATTAATGA 888
QY 541 cccctggtctgagagcgtgacatgtagacatagagcgtacacacacacacacacac 600
DB 889 CCTCTTGCTTGAAGCAGATATGTCGATATCGGGGTAAATACCTATATCTCTTAAGT 948
QY 601 gtagcatccctctctctgagagacgagacgagaaacatggaataatcacatcagtg 660
DB 949 GGGGCTCCCATTTCTTGGAGACACTAAGCAAGAAACGTAGCAAAATGTATCCGCTGTC 1008
QY 661 agttagcacttgatgagagagagagagagagagagagagagagagagagagagag 720
DB 1009 AACTACGAAATTTAGAGATTAATATCTTCACTTAATACAGAGCCCTVAGCCAAATTTTCATA 1068
QY 721 cggagagcttcgtgattaaagagaccggaacggtccacatccacagagagctctcagacac 780
DB 1069 AGAAGACTCTGTGTCAGAGATCCAAAGAAAGAAAGAAATGACAAATTAAGATAGTTGACGAT 1128
QY 781 ccctgagac 789
DB 1129 CCCTGAGATC 1137

RESULT 6
US-08-810-712-9
; Sequence 9, Application US/088107126
; Patent No. 6160106
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co. LTD
; TITLE OF INVENTION: Tumor Suppressor Genes, Proteins Encoded Thereby and
; FILE REFERENCE: sequence list

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RESULT 10
US-09-221-236-12
; Sequence 12, Application US/09221236
; Patent No. 6146841
; GENERAL INFORMATION:
; APPLICANT: Acton Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEOTIC ACID MOLECULES AND USES THEREFOR

Query Match	24.5%	Score 193.6	DB 3	Length 480
Best Local Similarity	98.0%	Pred. No. 4,9e-43		
Matches 196	Conservative 0	Mismatches 4	Indels 0	Gaps 0
QY	590	tcccttaagtggaagaccccttcctctgtggagacgaagacggaacactgccaata	649	
QY	1			
QY	26	tcagacttaagtggaagaccccttcctctgtggagacgaagacggaacactgccaata	85	
QY	650	tcacatcagtaagtaacgacttgatgaagaaatcttcacacataagagagagctggcca	709	
QY	1			
QY	86	tcacagcagtgatgtaagcacttgatgaagaaatcttcacacacgaagagagagctggcca	145	

QY 710 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 769
|||
Db 146 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 205
QY 770 ctctcagaacacccttgatc 789
|||
Db 206 ctctcagaacacccttgatc 225

RESULT 12
US-09-221-245-12
; Sequence 12, Application US/09221245
; Patent No. 6180358
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: NMI-050
; CURRENT APPLICATION NUMBER: US/09/221,245
; CURRENT FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: US 09/163,115
; EARLIER FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(480)
US-09-221-245-12

Query Match 24.5% Score 193.6; DB 4; Length 480;
Best Local Similarity 98.0%; Pred. No. 4.9e-43;
Matches 196; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 590 tcctccttaagtggagatccccccttcctcgtggagacagaaacgaagaacactgtgcaata 649
|||
Db 26 tcagcttaagtggagatccccccttcctcgtggagacagaaacgaagaacactgtgcaata 85
QY 650 tcacatcagtgagttacgaacttgatggagatctctcagccatcagcgagctggcca 709
|||
Db 86 tcacagcagtgagttacgaacttgatggagatctctcagccatcagcgagctggcca 145
QY 710 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 769
|||
Db 146 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 205
QY 770 ctctcagaacacccttgatc 789
|||
Db 206 ctctcagaacacccttgatc 225

RESULT 13
US-09-163-115-12
; Sequence 12, Application US/09163115A
; Patent No. 6183962
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: NMI-050
; CURRENT APPLICATION NUMBER: US/09/163,115A
; CURRENT FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS

; LOCATION: (1)..(480)
US-09-163-115-12

Query Match 24.5% Score 193.6; DB 4; Length 480;
Best Local Similarity 98.0%; Pred. No. 4.9e-43;
Matches 196; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 590 tcctccttaagtggagatccccccttcctcgtggagacagaaacgaagaacactgtgcaata 649
|||
Db 26 tcagcttaagtggagatccccccttcctcgtggagacagaaacgaagaacactgtgcaata 85
QY 650 tcacatcagtgagttacgaacttgatggagatctctcagccatcagcgagctggcca 709
|||
Db 86 tcacagcagtgagttacgaacttgatggagatctctcagccatcagcgagctggcca 145
QY 710 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 769
|||
Db 146 aggaacttatcggaaagcttcgtgttaagaagaccggaaacggtctcaatccaagagg 205
QY 770 ctctcagaacacccttgatc 789
|||
Db 206 ctctcagaacacccttgatc 225

RESULT 14
US-09-221-528-12
; Sequence 12, Application US/09221528
; Patent No. 6190874
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan
; TITLE OF INVENTION: NOVEL CSAPK-1 NUCLEIC ACID MOLECULES AND USES THEREFOR
; FILE REFERENCE: NMI-050
; CURRENT APPLICATION NUMBER: US/09/221,528
; CURRENT FILING DATE: 1998-12-28
; EARLIER APPLICATION NUMBER: 09/163,115
; EARLIER FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(480)
US-09-221-528-12

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Copyright (c) 1993 - 2000 CompuGen Ltd.

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8	784.2	99.4	2235	US-09-698-010-12335	Sequence 12335, A
9	784.2	99.4	2235	US-09-698-013-6041	Sequence 6041, Ap
10	760.2	96.3	1253	1 PCT-US01-08631-9265	Sequence 9265, Ap
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36 495.2 62.8 2387 28 US-09-710-281-4510 Sequence 4510, Ap
37 495.2 62.8 2387 29 US-09-721-589-5737 Sequence 5737, Ap
38 495.2 62.8 2387 29 US-09-726-811-1609 Sequence 1609, Ap
39 495.2 62.8 2387 29 US-09-726-806-4895 Sequence 4895, Ap
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ALIGNMENTS

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; Sequence 1, Application PC/TUS9913411
; GENERAL INFORMATION:
; APPLICANT: KIMCHI, Adl
; APPLICANT: MCINNIS A., Patricia
; TITLE OF INVENTION: DAP-KINASE RELATED PROTEIN
; FILE REFERENCE: KIMCHI2A
; CURRENT APPLICATION NUMBER: PCT/US99/13411
; CURRENT FILING DATE: 1999-06-15
; EARLIER APPLICATION NUMBER: 60/089,294
; EARLIER FILING DATE: 1998-06-15
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1742
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (62)..(1141)
PCT-US99-13411-1
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; GENERAL INFORMATION:
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; APPLICANT: MCINNIS A., Patricia
; TITLE OF INVENTION: DAP-KINASE RELATED PROTEIN
; FILE REFERENCE: KIMCHI2A
; CURRENT APPLICATION NUMBER: PCT/US99/13411A
; CURRENT FILING DATE: 1999-06-15
; EARLIER APPLICATION NUMBER: 60/089,294
; EARLIER FILING DATE: 1998-06-15
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; SEQ ID NO 1
; LENGTH: 1742
; TYPE: DNA
; ORGANISM: Human
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; CURRENT FILING DATE: 2000-12-15
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|||||
Db 638 cccctgagctcgcagagcgcacacatgtagagacatagagcgtcacacacacacacacac 697
OY 601 ggaagacatccctctcctctgagagagacagaaacagaaacacacacacacacacacac 660
|||||
Db 698 ggaagacatccctctcctctgagagagacagaaacagaaacacacacacacacacacac 757
OY 661 agttaagactctgtag 720
|||||
Db 758 agttaagactctgtag 817
OY 721 cgaagactctgtag 780
|||||
Db 818 cgaagactctgtag 877
OY 781 cccctgagac 789
|||||
Db 878 cccctgagac 886

RESULT 4
US-09-606-776-3799
; Sequence 3799, Application US/09606776
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Myers, Paul
; APPLICANT: Gearing, David P.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1129-001
; CURRENT APPLICATION NUMBER: US/09/606,776
; CURRENT FILING DATE: 2000-06-27
; PRIOR APPLICATION NUMBER: 60/141,578
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 60/141,379
; PRIOR FILING DATE: 1999-06-28

```
; PRIOR APPLICATION NUMBER: 60/141,138
; PRIOR FILING DATE: 1999-06-28
; PRIOR APPLICATION NUMBER: 60/141,581
; PRIOR FILING DATE: 1999-06-29
; NUMBER OF SEQ ID NOS: 5415
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO: 3799
; LENGTH: 2235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-606-776-3799
```

```
Query Match      99.6%; Score 785.8; DB 23; Length 2235;
Best Local Similarity 99.7%; Pred. No. 1.2e-184;
Matches 787; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY 1 tatgacatcgagagagagctgggagtgccagcttgcacatcgtaagaagtgcggag 60
   |||||||
Db 97 tatgacatcgagagagagctgggagtgccagcttgcacatcgtaagaagtgcggag 156
OY 61 aagagacgaggcttgagatgcaagccaagttcacaaagacggcagagccggagc 120
   |||||||
Db 157 aagagacgaggcttgagatgcaagccaagttcacaaagacggcagagccggagc 216
OY 121 cggcgcggtgtagccggagagatcgagcgaggtgagcatcctcgccaggctgctg 180
   |||||||
Db 217 cggcgcggtgtagccggagagatcgagcgaggtgagcatcctcgccaggctgctg 276
OY 181 caacacaaatgcatcacgctgcacacgctcctatgagaaacggcagagctggtcacac 240
   |||||||
Db 277 caacacaaatgcatcacgctgcacacgctcctatgagaaacggcagagctggtcacac 336
OY 241 ctggagctagtgctcggagagagctcctcgaattcctcgccaaagagctcactgag 300
   |||||||
Db 337 ctggagctagtgctcggagagagctcctcgaattcctcgccaaagagctcactgag 396
OY 301 gagagagagcgcaacagctcatatgaagagatcctcgagtggtggtgaactacatcacaca 360
   |||||||
Db 397 gagagagagcgcaacagctcatatgaagagatcctcgagtggtggtgaactacatcacaca 456
OY 361 aagaaatctgctcaacttgatctcaagccagaacaaatcatgtgtgtagaagaataat 420
   |||||||
Db 457 aagaaatctgctcaacttgatctcaagccagaacaaatcatgtgtgtagaagaataat 516
OY 421 cccattcacacatcaaaagctgacttggtctggtcacaagaaataagaatgagct 480
   |||||||
Db 517 cccattcacacatcaaaagctgacttggtctggtcacaagaaataagaatgagct 576
OY 481 gaatttaagaatatttttggagcgccggaatttgttctcagaagaatttgcgaactagag 540
   |||||||
Db 577 gaatttaagaatatttttggagcgccggaatttgttctcagaagaatttgcgaactagag 636
OY 541 cccctgggtcctggagcttgacatgttgagacataagcgctacacatacctcttaagt 600
   |||||||
Db 637 cccctgggtcctggagcttgacatgttgagacataagcgctacacatacctcttaagt 696
OY 601 ggaagcacccttcctcggagagacagaaacagaaacatggcaaatatcacatcaagtg 660
   |||||||
Db 697 ggaagcacccttcctcggagagacagaaacagaaacatggcaaatatcacatcaagtg 756
OY 661 agttaagacatttgtagaagaatcctcgaacataagcagagctggccaaggaattat 720
   |||||||
Db 757 agttaagacatttgtagaagaatcctcgaacataagcagagctggccaaggaattat 816
OY 721 cggagagcttcgtttaagaagaccggaaacggtcacaataccaagggtcctcagagac 780
   |||||||
Db 817 cggagagcttcgtttaagaagaccggaaacggtcacaataccaagggtcctcagagac 876
OY 781 ccctgagtc 789
   |||||||
Db 877 ccctgagtc 885
```

```
RESULT 5
US-60-278-232-3329
; Sequence 3329, Application US/60278232
; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preethi
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; TITLE OF INVENTION: Polynucleotide Sequence Databases, and Single Nucleotide
; FILE REFERENCE: GX-0011 P
; CURRENT APPLICATION NUMBER: US/60/278,232
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 12,557
; SOFTWARE: PERL Program
; SEQ ID NO: 3329
; LENGTH: 1970
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; OTHER INFORMATION: Incyte ID No: 211168.4
US-60-278-232-3329
```

```
Query Match      99.4%; Score 784.2; DB 66; Length 1970;
Best Local Similarity 99.6%; Pred. No. 2.9e-184;
Matches 786; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 tatgacatcgagagagagctgggagtgccagcttgcacatcgtaagaagtgcggag 60
   |||||||
Db 109 tatgacatcgagagagagctgggagtgccagcttgcacatcgtaagaagtgcggag 168
OY 61 aagagcggggcttgagatgcaagccaagttcacaaagacggcagagccggagc 120
   |||||||
Db 169 aagagcggggcttgagatgcaagccaagttcacaaagacggcagagccggagc 228
OY 121 cggcgcggtgtagccggagagatcgagcgaggtgagcatcctcgccaggctgctg 180
   |||||||
Db 229 cggcgcggtgtagccggagagatcgagcgaggtgagcatcctcgccaggctgctg 288
OY 181 caacacaaatgcatcacgctgcacacgctcctatgagaaacggcagagctggtcacac 240
   |||||||
Db 289 caacacaaatgcatcacgctgcacacgctcctatgagaaacggcagagctggtcacac 348
OY 241 ctggagctagtgctcggagagagctcctcgaattcctcgccaaagagctcactgag 300
   |||||||
Db 349 ctggagctagtgctcggagagagctcctcgaattcctcgccaaagagctcactgag 408
OY 301 gagagagagcgcaacagctcatatgaagagatcctcgagtggtggtgaactacatcacaca 360
   |||||||
Db 409 gagagagagcgcaacagctcatatgaagagatcctcgagtggtggtgaactacatcacaca 468
OY 361 aagaaatctgctcaacttgatctcaagccagaacaaatcatgtgtgtagaagaataat 420
   |||||||
Db 469 aagaaatctgctcaacttgatctcaagccagaacaaatcatgtgtgtagaagaataat 528
OY 421 cccattcacacatcaaaagctgacttggtctggtcacaagaaataagaatgagct 480
   |||||||
Db 529 cccattcacacatcaaaagctgacttggtctggtcacaagaaataagaatgagct 588
OY 481 gaatttaagaatatttttggagcgccggaatttgttctcagaagaatttgcgaactagag 540
   |||||||
Db 589 gaatttaagaatatttttggagcgccggaatttgttctcagaagaatttgcgaactagag 648
OY 541 cccctgggtcctggagcttgacatgttgagacataagcgctacacatacctcttaagt 600
   |||||||
Db 649 cccctgggtcctggagcttgacatgttgagacataagcgctacacatacctcttaagt 708
OY 601 ggaagcacccttcctcggagagacagaaacagaaacatggcaaatatcacatcaagtg 660
   |||||||
Db 709 ggaagcacccttcctcggagagacagaaacagaaacatggcaaatatcacatcaagtg 768
```

```
QY 661 agttacgacttgatgaggaattcttcagccatagcagcgactggccaaagacttatt 720
    |||||||
Db 769 agttacgacttgatgaggaattcttcagccatagcagcgactggccaaagacttatt 828
QY 721 cggaaagcttcgtgttaaaagagaccggaaacggtctcaatccaagaagctctcaagcac 780
    |||||||
Db 829 cggaaagcttcgtgttaaaagagaccggaaacggtctcaatccaagaagctctcaagcac 888
QY 781 cccctgagtc 789
    |||||||
Db 889 cccctgagtc 897

RESULT 6
US-09-649-163-9895
; Sequence 9895, Application US/09649163
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Galvin, Katherine A.
; APPLICANT: Leiby, Kevin R.
; APPLICANT: Kingsbury, Gillian A.
; APPLICANT: Welch, Nadine S.
; APPLICANT: McCarthy, Sean A.
; APPLICANT: Williamson, Mark
; APPLICANT: Richardson, Jennifer
; APPLICANT: Macbeth, Kyle J.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Villevall, Jean-Luc M.G.
; APPLICANT: Goodearl, Andrew D.J.
; APPLICANT: Siles-Santiago, Immaculada
; APPLICANT: White, David
; APPLICANT: Pan, Yang
; APPLICANT: Busfield, Samantha J.
; APPLICANT: Deeds, James
; APPLICANT: Lee, John
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.1164-001
; CURRENT APPLICATION NUMBER: US/09/649,163
; CURRENT FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: 60/150,608
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 10535
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9895
; LENGTH: 2235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-649-163-9895

Query Match 99.4%; Score 784.2; DB 25; Length 2235;
Best Local Similarity 99.6%; Pred. No. 3e-184;
Matches 786; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 241 cttagactagctgtctggagagagactcttcgattcttcctggccagaaagctagat 300
    |||||||
Db 337 cttagactagctgtctggagagagactcttcgattcttcctggccagaaagctagat 396
QY 301 gaagagagagccaccagcttcattaaagacagatccttgatgggtgtgaactattcaaca 360
    |||||||
Db 397 gaagagagagccaccagcttcattaaagacagatccttgatgggtgtgaactattcaaca 456
QY 361 aagaaattgtcactcttgatctcaagccagaaacattatgttgttagaagaataatt 420
    |||||||
Db 457 aagaaattgtcactcttgatctcaagccagaaacattatgttgttagaagaataatt 516
QY 421 cccattccacacatcaagctgattgacttgcttgctcagaaatagaagatgagatt 480
    |||||||
Db 517 cccattccacacatcaagctgattgacttgcttgctcagaaatagaagatgagatt 576
QY 481 gaattaaagatatttttgagacgcggaatttgcttcagaaattgtgaactagag 540
    |||||||
Db 577 gaattaaagatatttttgagacgcggaatttgcttcagaaattgtgaactagag 636
QY 541 cccctgggtctgagagctgacatgtgagacatagcgctcatcactatcctttagt 600
    |||||||
Db 637 cccctgggtctgagagctgacatgtgagacatagcgctcatcactatcctttagt 696
QY 601 ggaagcatcccttcctcctggagacagcgaagcagaacacctggcgaatatcatcagtg 660
    |||||||
Db 697 ggaagcatcccttcctcctggagacagcgaagcagaacacctggcgaatatcatcagtg 756
QY 661 agttacgacttgatgaggaattcttcagccatagcagcgagctggccaaagacttatt 720
    |||||||
Db 757 agttacgacttgatgaggaattcttcagccatagcagcgagctggccaaagacttatt 816
QY 721 cggaaagcttcgtgttaaaagagaccggaaacggtctcaatccaagaagctctcaagcac 780
    |||||||
Db 817 cggaaagcttcgtgttaaaagagaccggaaacggtctcaatccaagaagctctcaagcac 876
QY 781 cccctgagtc 789
    |||||||
Db 877 cccctgagtc 885

RESULT 7
US-09-652-917-3775
; Sequence 3775, Application US/09652917
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Distefano, Peter
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.1170-001
; CURRENT APPLICATION NUMBER: US/09/652,917
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/151,422
; PRIOR FILING DATE: 1999-08-30
; NUMBER OF SEQ ID NOS: 3855
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3775
; LENGTH: 2235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-652-917-3775

Query Match 99.4%; Score 784.2; DB 25; Length 2235;
Best Local Similarity 99.6%; Pred. No. 3e-184;
Matches 786; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```

Db 157 ||||| aagaacacggggctctgagatgtacgacgaagttcatcaagaacgagcagagccggcgagc 216
QY 121 cggcgagctgtgagccggagaggaatcgaagcggaggaatgagatccttgagagtgctg 180
Db 217 cggcgagctgtgagccggagaggaatcgaagcggaggaatgagatccttgagagtgctg 276
QY 181 caccacaatgtcaatcagctgtcaagctctatgaaacggcagcagctgtgtcacatc 240
Db 277 caccacaatgtcaatcagctgtcaagctctatgaaacggcagcagctgtgtcacatc 336
QY 241 ctgagctagtgtctggaagagagagctctcgaattcttcctgcccagaagagagctagat 300
Db 337 ctgagctagtgtctggaagagagagctctcgaattcttcctgcccagaagagagctagat 396
QY 301 gaggagagagcaccagctctcaatgaacgacatccgagaggggtgaactacatcacaca 360
Db 397 gaggagagagcaccagctctcaatgaacgacatccgagaggggtgaactacatcacaca 456
QY 361 aagaaaatgtctcaatcttgatctcaagccagaacaaatattgtgttagacaagaataat 420
Db 457 aagaaaatgtctcaatcttgatctcaagccagaacaaatattgtgttagacaagaataat 516
QY 421 cccattccacacatcaagctgtgacttgctgtgctgcacgaataatgaagatgagat 480
Db 517 cccattccacacacatcaagctgtgacttgctgtgctgcacgaataatgaagatgagat 576
QY 481 gaatttaagaataatttttgagacgacgggaattgtgtgtccagaataatgtgaactagag 540
Db 577 gaatttaagaataatttttgagacgacgggaattgtgtgtccagaataatgtgaactagag 636
QY 541 cccctgggtcttgagagcgagacatgtgagacatagacgtgtcatcacatcattccttaagt 600
Db 637 cccctgggtcttgagagcgagacatgtgagacatagacgtgtcatcacatcattccttaagt 696
QY 601 ggaagcacccttccctctgagagacacgagacgagaaacacgtgcacaaatatacatcagtg 660
Db 697 ggaagcacccttccctctgagagacacgagacgagaaacacgtgcacaaatatacatcagtg 756
QY 661 agttacgacttgatgaggaattcttccagcacaacgagcagctgtgcccagaagacttatt 720
Db 757 agttacgacttgatgaggaattcttccagcacaacgagcagctgtgcccagaagacttatt 816
QY 721 cggagacgtctgtgttaagaagacccggaaacggtcacaatccagaagagctctcagacac 780
Db 817 cggagacgtctgtgttaagaagacccggaaacggtcacaatccagaagagctctcagacac 876
QY 781 cccctggatc 789
Db 877 cccctggatc 885

```

RESULT 8
US-09-698-010-12235
; Sequence 12235, Application US/09698010
; GENERAL INFORMATION:
; APPLICANT: Williamson, Mark
; APPLICANT: Shvlian, Andrew W.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.2029-001
; CURRENT APPLICATION NUMBER: US/09/698,010
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: 60/162,358
; NUMBER OF SEQ ID NOS: 15684
; SOFTWARE: FASTSeq for Windows Version 4.0
; SEQ ID NO 12235
; LENGTH: 2235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-698-010-12235

```

Query Match 99.4%; Score 784.2; DB 27; Length 2235;
Best Local Similarity 99.6%; Pred. NO. 3e-184;
Matches 786; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 tatgacatcggagagagctgagagctgagagcttgcacatcgtaagaattgcggagag 60
Db 97 tatgacatcggagagagctgagagctgagagcttgcacatcgtaagaattgcggagag 156
QY 61 aagagacggggtctgagatgtgagccaaagtctcaagaagacggcagagcggcgagc 120
Db 157 aagagacggggtctgagatgtgagccaaagtctcaagaagacggcagagcggcgagc 216
QY 121 cggcgagctgtgagccggagaggaatcgaagcggagaggtgtgaatccctgagagtgctg 180
Db 217 cggcgagctgtgagccggagaggaatcgaagcggagaggtgtgaatccctgagagtgctg 276
QY 181 caccacaatgtcaatcagctgtcaagctctatgaaacggcagcagctgtgtcacatc 240
Db 277 caccacaatgtcaatcagctgtcaagctctatgaaacggcagcagctgtgtcacatc 336
QY 241 ctgagctagtgtctggaagagagagctctcgaattcttcctgcccagaagagagctagat 300
Db 337 ctgagctagtgtctggaagagagagctctcgaattcttcctgcccagaagagagctagat 396
QY 301 gaggagagagcaccagctctcaatgaacgacatccgagaggggtgaactacatcacaca 360
Db 397 gaggagagagcaccagctctcaatgaacgacatccgagaggggtgaactacatcacaca 456
QY 361 aagaaaatgtctcaatcttgatctcaagccagaacaaatattgtgttagacaagaataat 420
Db 457 aagaaaatgtctcaatcttgatctcaagccagaacaaatattgtgttagacaagaataat 516
QY 421 cccattccacacatcaagctgtgacttgctgtgctgcacgaataatgaagatgagat 480
Db 517 cccattccacacatcaagctgtgacttgctgtgctgcacgaataatgaagatgagat 576
QY 481 gaatttaagaataatttttgagacgacgggaattgtgtgtccagaataatgtgaactagag 540
Db 577 gaatttaagaataatttttgagacgacgggaattgtgtgtccagaataatgtgaactagag 636
QY 541 cccctgggtcttgagagcgagacatgtgagacatagacgtgtcatcacatcattccttaagt 600
Db 637 cccctgggtcttgagagcgagacatgtgagacatagacgtgtcatcacatcattccttaagt 696
QY 601 ggaagcacccttccctctgagagacacgagacgagaaacacgtgcacaaatatacatcagtg 660
Db 697 ggaagcacccttccctctgagagacacgagacgagaaacacgtgcacaaatatacatcagtg 756
QY 661 agttacgacttgatgaggaattcttccagcacaacgagcagctgtgcccagaagacttatt 720
Db 757 agttacgacttgatgaggaattcttccagcacaacgagcagctgtgcccagaagacttatt 816
QY 721 cggagacgtctgtgttaagaagacccggaaacggtcacaatccagaagagctctcagacac 780
Db 817 cggagacgtctgtgttaagaagacccggaaacggtcacaatccagaagagctctcagacac 876
QY 781 cccctggatc 789
Db 877 cccctggatc 885

```

RESULT 9
US-09-698-013-6041
; Sequence 6041, Application US/09698013
; GENERAL INFORMATION:
; APPLICANT: Geating, David P.
; APPLICANT: Comrack, Christopher
; APPLICANT: Kingsbury, Gillian A.
; APPLICANT: Holtzman, Douglas A.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.2013-001

; CURRENT APPLICATION NUMBER: US/09/698,013
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: 60/162,360
; PRIOR FILING DATE: 1999-10-29
; NUMBER OF SEQ ID NOS: 7935
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 6041
; LENGTH: 2235
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-698-013-6041

Query Match 99.4%; Score 784.2; DB 27; Length 2235;
Best Local Similarity 99.6%; Pred. No. 3e-184; Indels 0; Gaps 0;
Matches 786; Conservative 0; Mismatches 3;

OY 1 tatgacatcggaagagctggagctggcagcttgcacatcgctgaagaagtcggag 60
|||
DB 97 tatgacatcggaagagctggagctggcagcttgcacatcgctgaagaagtcggag 156
|||
OY 61 aagaagcaggggcttgaatgagcagcaagtcacaaagcggcagagccggcgagc 120
|||
DB 157 aagaagcaggggcttgaatgagcagcaagtcacaaagcggcagagccggcgagc 216
|||
OY 121 cggcgcggtggtgagcgggagagatcgagcggaggtgagcattccctggcgaggtgctg 180
|||
DB 217 cggcgcggtggtgagcgggagagatcgagcggaggtgagcattccctggcgaggtgctg 276
|||
OY 181 caccacaatgcatcaccgctgcagcagctgtacagaaaccgacccgagctgtgacatc 240
|||
DB 277 caccacaatgcatcaccgctgcagcagctgtacagaaaccgacccgagctgtgacatc 336
|||
OY 241 ctgagctgagctgtcgtggaagagagctcttcgattccctggccagaaaggagtcagtgat 300
|||
DB 337 ctgagctgagctgtcgtggaagagagctcttcgattccctggccagaaaggagtcagtgat 396
|||
OY 301 gaggagagagcaccagcttcattaaagcagatcctgagatgggtgaaataccttcacaca 360
|||
DB 397 gaggagagagcaccagcttcattaaagcagatcctgagatgggtgaaataccttcacaca 456
|||
OY 361 aagaagaaatgctcacttgaatcctcaagccagaaacatlatgtctgtagaacaaatatt 420
|||
DB 457 aagaagaaatgctcacttgaatcctcaagccagaaacatlatgtctgtagaacaaatatt 516
|||
OY 421 cccattccaaacatcaagctgattgattgtctgtgctcagcaaaatagaagatggagtt 480
|||
DB 517 cccattccaaacatcaagctgattgattgtctgtgctcagcaaaatagaagatggagtt 576
|||
OY 481 gaatttaagaaatatttttggagagccgaaattgtgtctcagaatattggaatacagag 540
|||
DB 577 gaatttaagaaatatttttggagagccgaaattgtgtctcagaatattggaatacagag 636
|||
OY 541 cccctgggtctggagagctgacatctgagagatagcgctcatcaccatacctcccttaag 600
|||
DB 637 cccctgggtctggagagctgacatctgagagatagcgctcatcaccatacctcccttaag 696
|||
OY 601 gggagcattcccttctctggagagacagaaagcaggaactggcacaatcatcacatcagtg 660
|||
DB 697 gggagcattcccttctctggagagacagaaagcaggaactggcacaatcatcacatcagtg 756
|||
OY 661 agttaagaaatcttgaagaaatcttcagcagatagcgagagctggcagaagcttatt 720
|||
DB 757 agttaagaaatcttgaagaaatcttcagcagatagcgagagctggcagaagcttatt 816
|||
OY 721 cggaaagcttctggtttaaagagaccggaaacggctcacaaatccaagaggtcttcagagcac 780
|||
DB 817 cggaaagcttctggtttaaagagaccggaaacggctcacaaatccaagaggtcttcagagcac 876
|||
OY 781 cccctgagtc 789
|||
DB 877 cccctgagtc 885
|||

RESULT 10
PCT-US01-08631-9265
; Sequence 9265, Application PC/TUS0108631
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 21272-049
; CURRENT APPLICATION NUMBER: PCT/US01/08631
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 9265
; LENGTH: 1253
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIMILAR
; LOCATION: (231)..(1250)
; OTHER INFORMATION: 100% homologous to Homo sapiens Death-associated protein
; OTHER INFORMATION: kinase 2, accession number AB018001, Smith-Waterman Score=1732.
PCT-US01-08631-9265

Query Match 96.3%; Score 760.2; DB 1; Length 1253;
Best Local Similarity 99.6%; Pred. No. 2.3e-178; Indels 0; Gaps 0;
Matches 762; Conservative 0; Mismatches 3;

OY 25 agtggcaggttgcacatcgagaaagctgcgggaagaagcaggggcttgatagca 84
|||
DB 231 agtggcaggttgcacatcgagaaagctgcgggaagaagcaggggcttgatagca 290
|||
OY 85 gccaaagtcatacaagaagcggcagagccggcgagccggcggtgtgagccggagagag 144
|||
DB 291 gccaaagtcatacaagaagcggcagagccggcgagccggcggtgtgagccggagagag 350
|||
OY 145 atcgaagcggaggtgagcatctctgagcaggtgtctgacacaaatgcatcacgctgcac 204
|||
DB 351 atcgaagcggaggtgagcatctctgagcaggtgtctgacacaaatgcatcacgctgcac 410
|||
OY 205 gacgtcatgagaaacgcagcagcagtgctgacatcctcttgaagctgagtgagagagag 264
|||
DB 411 gacgtcatgagaaacgcagcagcagtgctgacatcctcttgaagctgagtgagagagag 470
|||
OY 265 ctctcgattccttgcgcagaaagagatcactgagtgagagggcgacacagcttcatt 324
|||
DB 471 ctctcgattccttgcgcagaaagagatcactgagtgagagggcgacacagcttcatt 530
|||
OY 325 aagcagaatccttgaatgggtgaaatccttcacacaaagaatattgctcattgattc 384
|||
DB 531 aagcagaatccttgaatgggtgaaatccttcacacaaagaatattgctcattgattc 590
|||
OY 385 aagcagaatccttgaatgggtgaaatccttcacacaaagaatattgctcattgattc 444
|||
DB 591 aagcagaatccttgaatgggtgaaatccttcacacaaagaatattgctcattgattc 650
|||
OY 445 gacttggctggtcagcaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatg 504
|||
DB 651 gacttggctggtcagcaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatgaaatg 710
|||
OY 505 ccggaatttggctcagaagaattgtgaactacagccctgggtctcgagggctgagacg 564
|||
DB 711 ccggaatttggctcagaagaattgtgaactacagccctgggtctcgagggctgagacg 770
|||
OY 565 tggagcagaagcgtcatcacatcattcctttaaagtgagagatcccttctctggagagac 624
|||
DB 771 tggagcagaagcgtcatcacatcattcctttaaagtgagagatcccttctctggagagac 830
|||
OY 625 acgaaagcaggaacacatgcaaatatcacatcagtgagtgaaacttgatgaggaattc 684
|||

|||||
Db 831 acgaagcaggaacactggcgaatcaccagcagtgatgacttgatgagaaattc 890
QY 685 ttcaagccatacagcagctgagcccaaggaattatccgaagcttctgtttaagagacc 744
Db 891 ttcaagccatacagcagctgagcccaaggaattatccgaagcttctgtttaagagacc 950
QY 745 cggaaacggtctacaatcccaagaggtctcagaacccctgagtc 789
Db 951 cggaaacggtctacaatcccaagaggtctcagaacccctgagtc 995

RESULT 11

US-09-914-8371
; Sequence 8371, Application US/09652914
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.1193-001
; CURRENT APPLICATION NUMBER: US/09/652,914
; CURRENT FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,112
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9677
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 8371
; LENGTH: 1198
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-652-914-8371

Query Match 93.4%, Score 737.2; DB 25; Length 1198;
Best Local Similarity 99.1%; Pred. No. 1.2e-172;
Matches 783; Conservative 0; Mismatches 3; Indels 4; Gaps 4;

QY 1 tatgacatcggagaggaactgggggtggcaggttgcacatcgtaagaagtgcggag 60
Db 62 tatgacatcggagaggaactgggggtggcaggttgcacatcgtaagaagtgcggag 121
QY 61 aagagcaggggctgagatgacacagttcatcaagaagcggcagagcggagc 120
Db 122 aagagcaggggctgagatgacacagttcatcaagaagcggcagagcggagc 180
QY 121 cggcgcggtgtgagcgggagagatcgagcgggaggtgagcatctcgcgaggtgctg 180
Db 181 cggcgcggtgtgagcgggagagatcgagcgggaggtgagcatctcgcgaggtgctg 239
QY 181 caccacaatgcatcacgcctgcagacgtctatgagaacccgacccgagctgtgacac 240
Db 240 caccacaatgcatcacgcctgcagacgtctatgagaacccgacccgagctgtgacac 299
QY 241 ctgagctagtgcttgagagagccttcgattcctcgcccaagaagagtgactgact 300
Db 300 ctgagctagtgcttgagagagccttcgattcctcgcccaagaagagtgactgact 359
QY 301 gaggagagagcaccagcttcatcaagaagatctctgagtggtggaactaccctcaaca 360
Db 360 gaggagagagcaccagcttcatcaagaagatctctgagtggtggaactaccctcaaca 418
QY 361 aagaaatctcacttgcattgacccaagccaataacattatgtgttgaagaataatt 420
Db 419 aagaaatctcacttgcattgacccaagccaataacattatgtgttgaagaataatt 478
QY 421 cccattccacacatcaagctgattgacttgcttggtctcagaataatgagagatt 480
Db 479 cccattccacacatcaagctgattgacttgcttggtctcagaataatgagagatt 538
QY 481 gaatttaagaataattttggagacgcgggaattgttctccagaataatgtgaaactagag 540
Db 539 gaatttaagaataattttggagacgcgggaattgttctccagaataatgtgaaactagag 598

QY 541 ccccttggtctgagagctgacatgtgagacataagcgtlcatcacatcattcttaagt 600
Db 599 ccccttggtctgagagctgacatgtgagacataagcgtlcatcacatcattcttaagt 658
QY 601 gggagatcccttctccttgagagacacgaagcaggaactgtgcaaatatcacatgag 660
Db 659 gggagatcccttctccttgagagacacgaagcaggaactgtgcaaatatcacatgag 718
QY 661 agttagacttgataggaattcttca-gccatagcagagagctggccaaggaattat 719
Db 719 agttagacttgataggaattcttca-gccatagcagagagctggccaaggaattat 778
QY 720 tcggaagcttctgttaagaagaccggaaacggtctacacatccaagaagcttccagaca 779
Db 779 tcggaagcttctgtgttaagaagaccggaaacggtctacacatccaagaagcttccagaca 838
QY 780 ccccttgagtc 789
Db 839 ccccttgagtc 848

RESULT 12

US-09-760-446A-450
; Sequence 450, Application US/09760446A
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT268
; CURRENT APPLICATION NUMBER: US/09/760,446A
; CURRENT FILING DATE: 2000-01-16
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/225,757
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/226,868
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/216,647
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,267
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/216,880
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,270
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/251,869
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/235,834
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/234,274
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/234,223
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: 60/228,924
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/224,518
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/236,369

PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/224,519
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/220,964
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/241,809
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/249,299
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/236,327
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/241,785
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/244,617
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 60/225,268
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/236,368
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/251,856
PRIOR FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/251,868
PRIOR FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/229,344
PRIOR FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/234,997
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: 60/229,343
PRIOR FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/229,345
PRIOR FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/229,287
PRIOR FILING DATE: 2000-09-01
PRIOR APPLICATION NUMBER: 60/229,513
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: 60/231,413
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/229,509
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: 60/236,367
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/237,039
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,038
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/236,370
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/236,802
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,037
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,040
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/240,960
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/239,935
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 60/239,937
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 60/241,787
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/246,474
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/246,532
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/249,216
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,210
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/226,681
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: 60/225,759
PRIOR FILING DATE: 2000-08-14

PRIOR APPLICATION NUMBER: 60/225,213
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/227,182
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: 60/225,214
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/235,836
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/230,438
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/215,135
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: 60/225,266
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/249,218
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,208
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,213
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,212
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,207
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,245
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,244
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,217
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,211
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,215
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,264
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,214
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,297
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/232,400
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/231,242
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,081
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,080
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,414
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,244
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,064
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/233,063
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,397
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,399
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,401
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/241,808
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,826
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,786
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,221
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/246,475
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/231,243

;; PRIOR FILING DATE: 2000-09-08
;; PRIOR APPLICATION NUMBER: 60/233,065
;; PRIOR FILING DATE: 2000-09-14
;; PRIOR APPLICATION NUMBER: 60/232,398

Query Match 82.8%; Score 653.2; DB 30; Length 830;
Best Local Similarity 98.1%; Pred. No. 8.5e-152;
Matches 680; Conservative 0; Mismatches 11; Indels 2; Gaps 2;

```
QY 1 tatgacatcgagagagagctggagagtgccagcttgccatcgatgaaagatgcggag 60
DB 137 tatgacatcgagagagagctggagagtgccagcttgccatcgatgaaagatgcggag 196
QY 61 aagagcagcgagcttgatgacagccaagttcatcaagaacgagagcgagcgagc 120
DB 197 aagagcagcgagcttgatgacagccaagttcatcaagaacgagagcgagcgagc 256
QY 121 cggcgagcttgagcggagagagatcgagcgagagtgagcatcctcgagagtgctg 180
DB 257 cggcgagcttgagcggagagagatcgagcgagagtgagcatcctcgagagtgctg 316
QY 181 caccacaatgcatcagctgacagcgtctatgaagaacgagcagcagtgctgacac 240
DB 317 caccacaatgcatcagctgacagcgtctatgaagaacgagcagcagtgctgacac 376
QY 241 ctgagctagtgctcgagagagagctctcgaattcctcgccagaagagagtcagat 300
DB 377 ctgagctagtgctcgagagagagctctcgaattcctcgccagaagagagtcagat 436
QY 301 gagagagagcgacacagcttcatgaagagatcctgagtgagtgagtaactacac 360
DB 437 gagagagagcgacacagcttcatgaagagatcctgagtgagtgagtaactacac 496
QY 361 aagaanaatgtcacttgatctcaagccagaanaacatlatgtgttaagaagaatatt 420
DB 497 aagaanaatgtcacttgatctcaagccagaanaacatlatgtgttaagaagaatatt 556
QY 421 cccattccacacatcaagctgacttgctgctgctcaagaata-gaagatgagat 479
DB 557 cccattccacacatcaagctgacttgctgctgctcaagaata-gaagatgagat 616
QY 480 tgaatttaagaatatcttctggagacgaggaatttgctcctcagaagatgtgaactaaga 539
DB 617 tgaatttaagaatatcttctggagacgaggaatttgctcctcagaagatgtgaactaaga 676
QY 540 gccctcggtg-ctggagagctgacatgtgagacataagcgctacacactacactctaa 598
DB 677 gccctcggtg-ctggagagctgacatgtgagacataagcgctacacactacactctaa 736
QY 599 gtgagacatccctctcctctggagacagagcaggaacaccttgcaataatcacatag 658
DB 737 gtgagacatccctctcctctggagacagagcaggaacaccttgcaataatcacatag 796
QY 659 tgaattacgacttgatgaggaatcttcagcc 691
DB 797 tgaattacgacttgatgaggaatcttcagcc 829
```

RESULT 13

US-60-360-207-3361
; Sequence 3361, Application US/60360207
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: HUMAN GENOME DISCOVERY SYSTEM AND USES THEREOF
; FILE REFERENCE: CL001321
; CURRENT APPLICATION NUMBER: US/60/360,207
; CURRENT FILING DATE: 2002-03-01
; NUMBER OF SEQ ID NOS: 47235
; SEQ ID NO 3361
; LENGTH: 1732
; TYPE: DNA
; ORGANISM: HUMAN
US-60-360-207-3361

Query Match 80.7%; Score 637; DB 75; Length 1732;
Best Local Similarity 89.6%; Pred. No. 1.1e-147;
Matches 707; Conservative 0; Mismatches 55; Indels 27; Gaps 1;

```
QY 1 tatgacatcgagagagagctggagagtgccagcttgccatcgatgaaagatgcggag 60
DB 181 tatgacatcgagagagagctggagagtgccagcttgccatcgatgaaagatgcggag 240
QY 61 aagagcagcgagcttgatgacagccaagttcatcaagaacgagagcgagcgagc 120
DB 241 aagagcagcgagcttgatgacagccaagttcatcaagaacgagagcgagcgagc 300
QY 121 cggcgagcttgagcggagagagatcgagcgagagtgagcatcctcgagagtgctg 180
DB 301 cggcgagcttgagcggagagagatcgagcgagagtgagcatcctcgagagtgctg 360
QY 181 caccacaatgcatcagctgacagcgtctatgaagaacgagcagcagtgctgacac 240
DB 361 caccacaatgcatcagctgacagcgtctatgaagaacgagcagcagtgctgacac 420
QY 241 ctgagctagtgctcgagagagagctctcgaattcctcgccagaagagagtcagat 300
DB 421 ctgagctagtgctcgagagagagctctcgaattcctcgccagaagagagtcagat 480
QY 301 gagagagagcgacacagcttcatgaagagatcctgagtgagtgagtaactacac 360
DB 481 gagagagagcgacacagcttcatgaagagatcctgagtgagtgagtaactacac 540
QY 361 aagaanaatgtcacttgatctcaagccagaanaacatlatgtgttaagaagaatatt 420
DB 541 aagaanaatgtcacttgatctcaagccagaanaacatlatgtgttaagaagaatatt 600
QY 421 cccattccacacatcaagctgacttgctgctgctcaagaata-gaagatgagat 480
DB 601 cccattccacacatcaagctgacttgctgctgctcaagaata-gaagatgagat 660
QY 481 gaaatttaagaatatcttctggagacgaggaatttgctcctcagaagatgtgaactaaga 540
DB 661 gaaatttaagaatatcttctggagacgaggaatttgctcctcagaagatgtgaactaaga 720
QY 541 gccctcggtg-ctggagagctgacatgtgagacataagcgctacacactacactaa 600
DB 721 gccctcggtg-ctggagagctgacatgtgagacataagcgctacacactacactaa 753
QY 601 ggaagatccctctcctctggagacagagcaggaacacctggcaatatcacatag 660
DB 754 ggaagatccctctcctctggagacagagcaggaacacctggcaatatcacatag 813
QY 661 agttacgacttgatgaggaatcttcacagcacaacagagagctggcagaagacttaatt 720
DB 814 agttacgacttgatgaggaatcttcacagcacaacagagagctggcagaagacttaatt 873
QY 721 cggagagcttcgtgttaagaagagacccggaacggtcacaatccaagaagcttcagagac 780
DB 874 cggagagcttcgtgttaagaagagacccggaacggtcacaatccaagaagcttcagagac 933
QY 781 cccgtgagc 789
DB 934 cccgtgagc 942
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RESULT 14

US-09-760-443-677
; Sequence 677, Application US/09760443
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P212
; CURRENT APPLICATION NUMBER: US/09/760,443
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - refer to PALM or file wrapper

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; NUMBER OF SEQ ID NOS: 2164
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 677
; LENGTH: 825
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (654)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (672)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (822)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (825)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-760-443-677
```

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Query Match          79.7%; Score 628.8; DB 30; Length 825;
Best Local Similarity 97.7%; Pred. No. 1e-145;
Matches 677; Conservative 1; Mismatches 11; Indels 4; Gaps 4;
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QY 1 tatgacatcggagagagctgaggagctggccagcttgcacatcgtaagaagtcgggag 60
   |||||||
DB 134 tatgacatcggagagagctgaggagctggccagcttgcacatcgtaagaagtcgggag 193
   |||||||
QY 61 aagagacggggcttgagatgagcgaagttcatcaagaagagcgagcgagcgagc 120
   |||||||
DB 194 aagagacggggcttgagatgagcgaagttcatcaagaagagcgagcgagcgagc 252
   |||||||
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   |||||||
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RESULT 15
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; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT268
; CURRENT APPLICATION NUMBER: US/09/760,446A
; CURRENT FILING DATE: 2000-01-16
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; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
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46 PRIOR APPLICATION NUMBER: 60/241, 826
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54 PRIOR APPLICATION NUMBER: 60/231, 243
55 PRIOR FILING DATE: 2000-09-08
56 PRIOR APPLICATION NUMBER: 60/233, 065
57 PRIOR FILING DATE: 2000-09-14
58 PRIOR APPLICATION NUMBER: 60/232, 398
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60 Query Match 79.7%; Pred. 628.8; DB 30; Length 825;
61 Best Local Similarity 97.7%; Score. NO. 1e-145;
62 Matches 677; Conservative 1; Mismatches 11; Indels 4; Gaps 4;
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